

## CLAIMS

All modifications coming within the spirit and scope of the invention are as stated in the following claims:-

**1. A Solar Desalination Plant comprising in combination:**

(a) An airtight housing called a chamber erected in water, in the form of a dome having its top, and sides made of transparent material to allow the sun's rays to pass freely into it, and

(b) the said chamber containing black floats spread over the surface of the water inside the chamber to receive the heat energy of the solar rays and

(c) the said chamber having a channel, an open duct fixed all along its wall horizontally for the condensed water drops to be collected, and

(d) the said channel being connected to an outlet pipe and the outlet pipe to a U-tube that is connected to a collecting tank which is in turn connected to a suction pump through a valve, and

(e) the said suction pump is also connected to a storage tank , and

(f) the said collecting tank is also connected to the said storage tank through another valve and the said storage tank is to be filled with the condensed water from the said chamber finally,

(g) whereby the said Solar Desalination Plant may be selectively urged to produce pure water free from dissolved impurities by utilizing the solar energy.

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